

FIG. 1A  
(PRIOR ART)

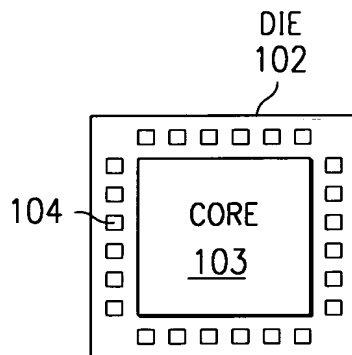


FIG. 1B  
(PRIOR ART)

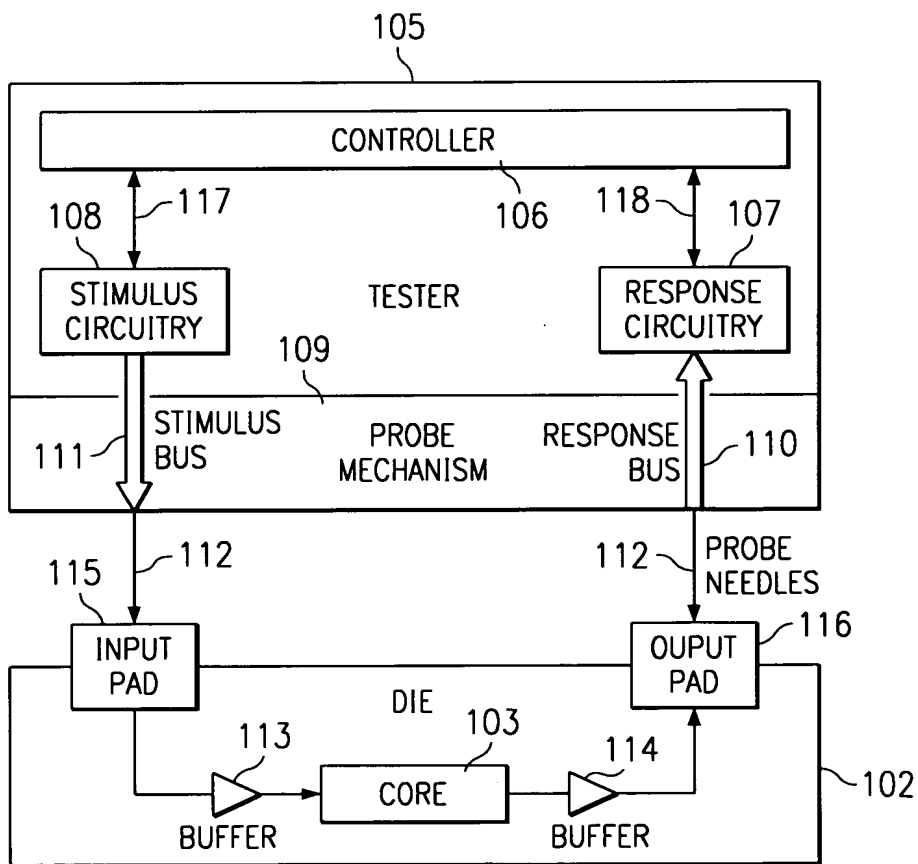


FIG. 1C  
(PRIOR ART)



TI-31203

2/18

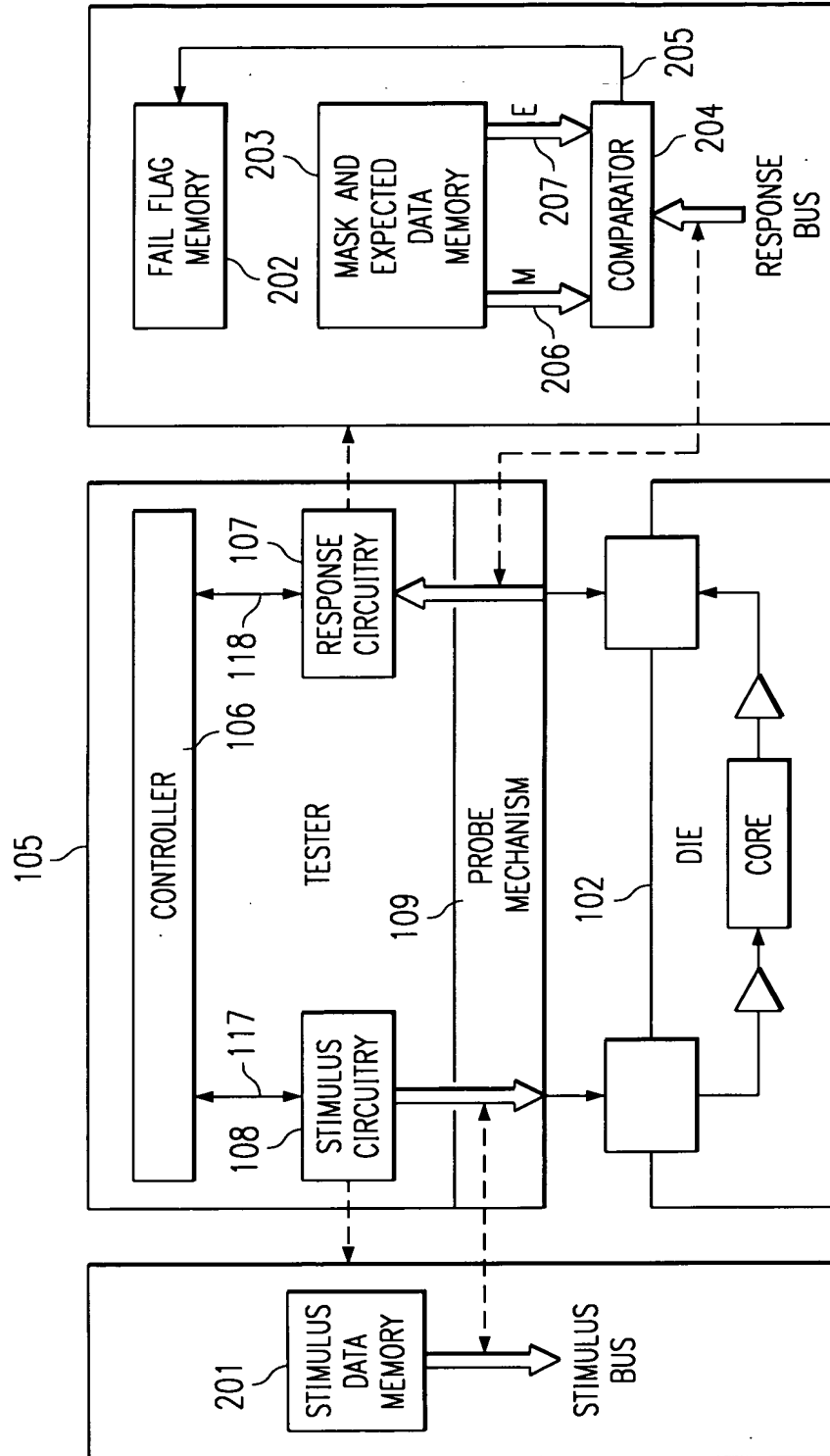


FIG. 2 (PRIOR ART)

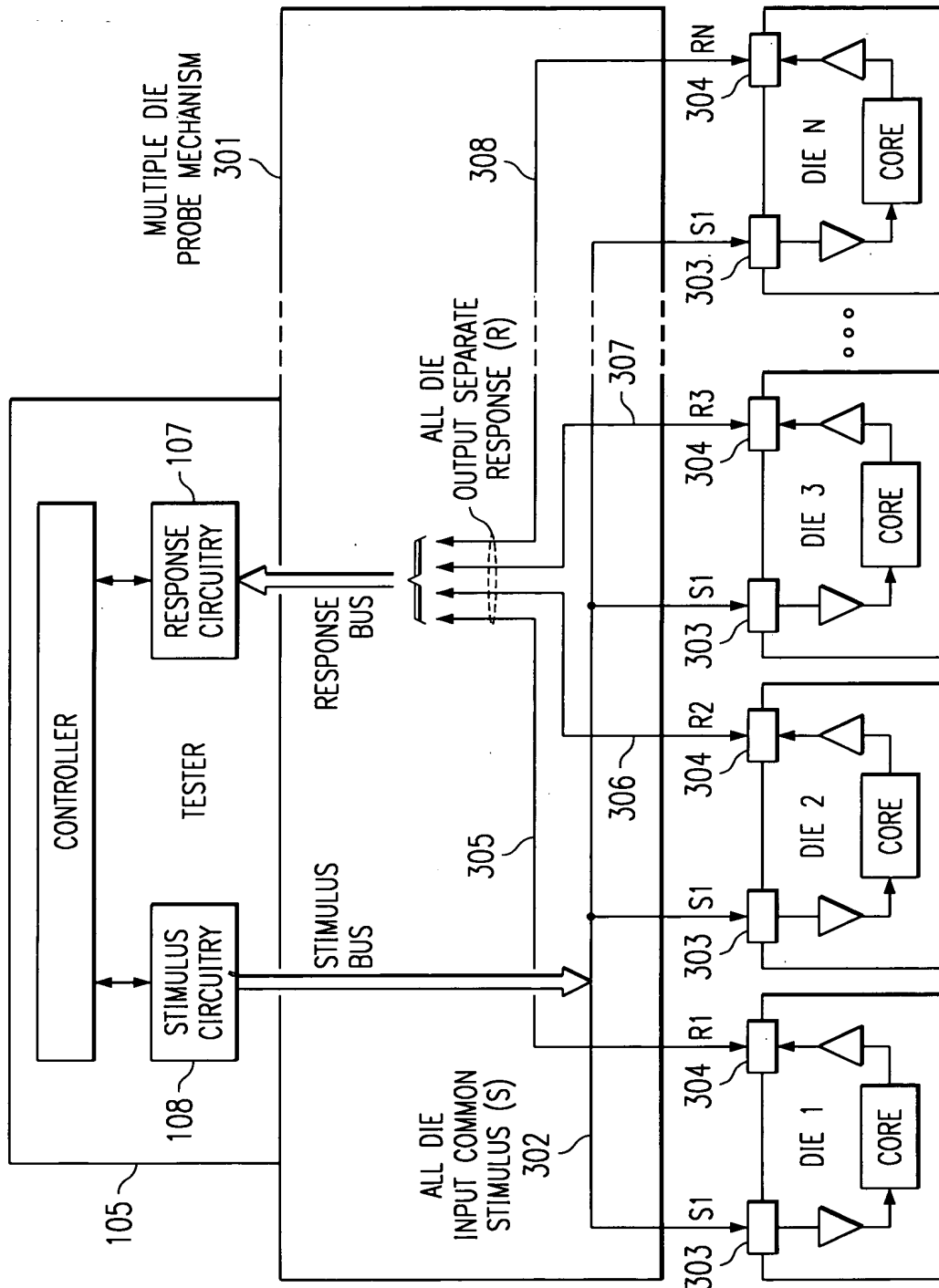
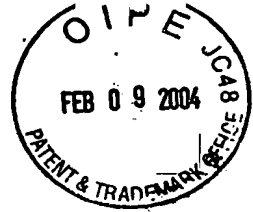


FIG. 3 (PRIOR ART)

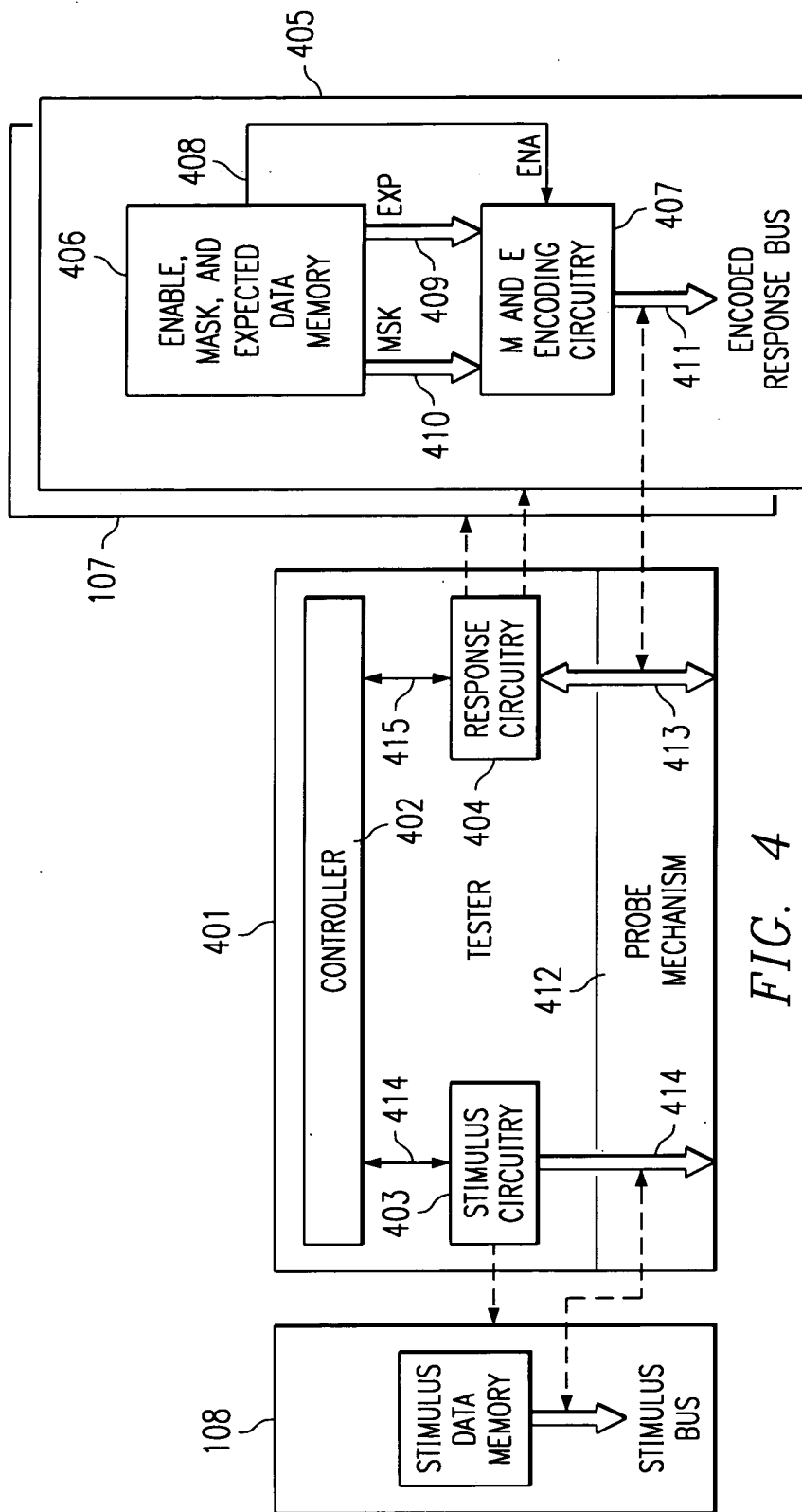
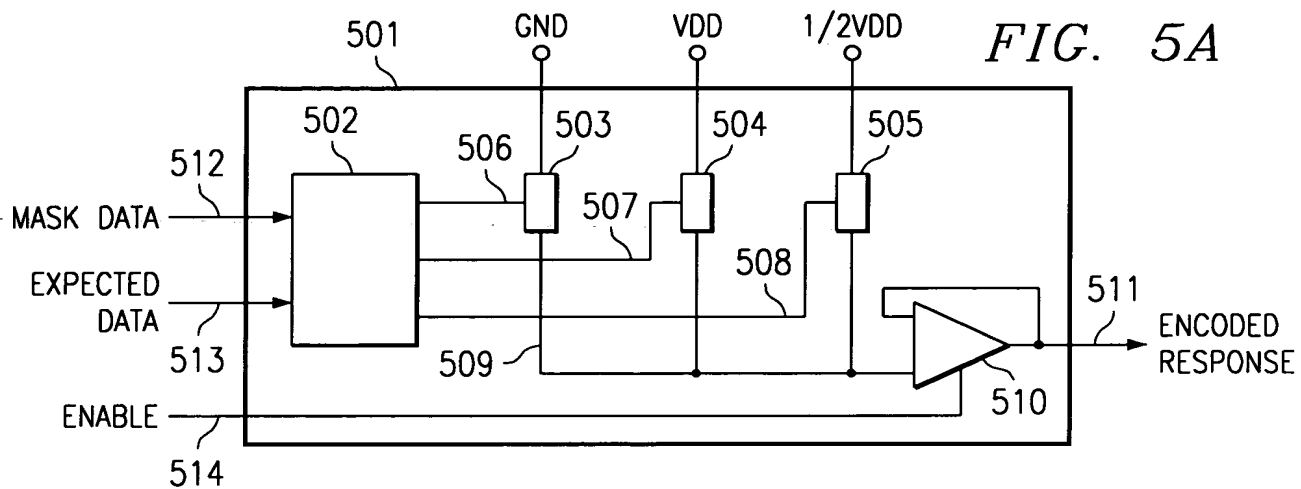


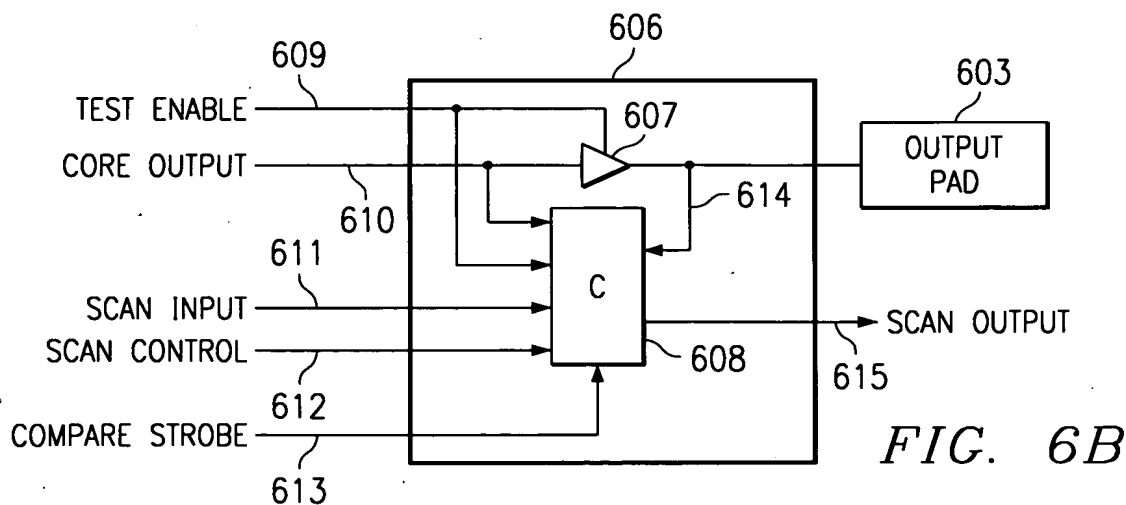
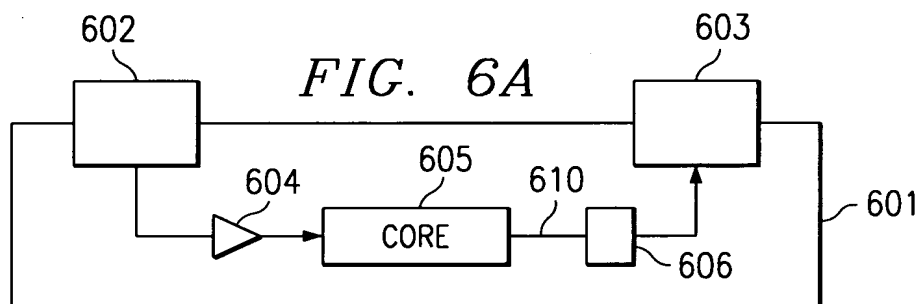
FIG. 4

5/18



**FIG. 5B**

ENA	MSK	EXP	ENR	OUTPUT MODE
0	0	0	Z	DISABLED
1	0	0	GND	LOW
1	0	1	VDD	HIGH
1	1	X	1/2VDD	MASK



6/18

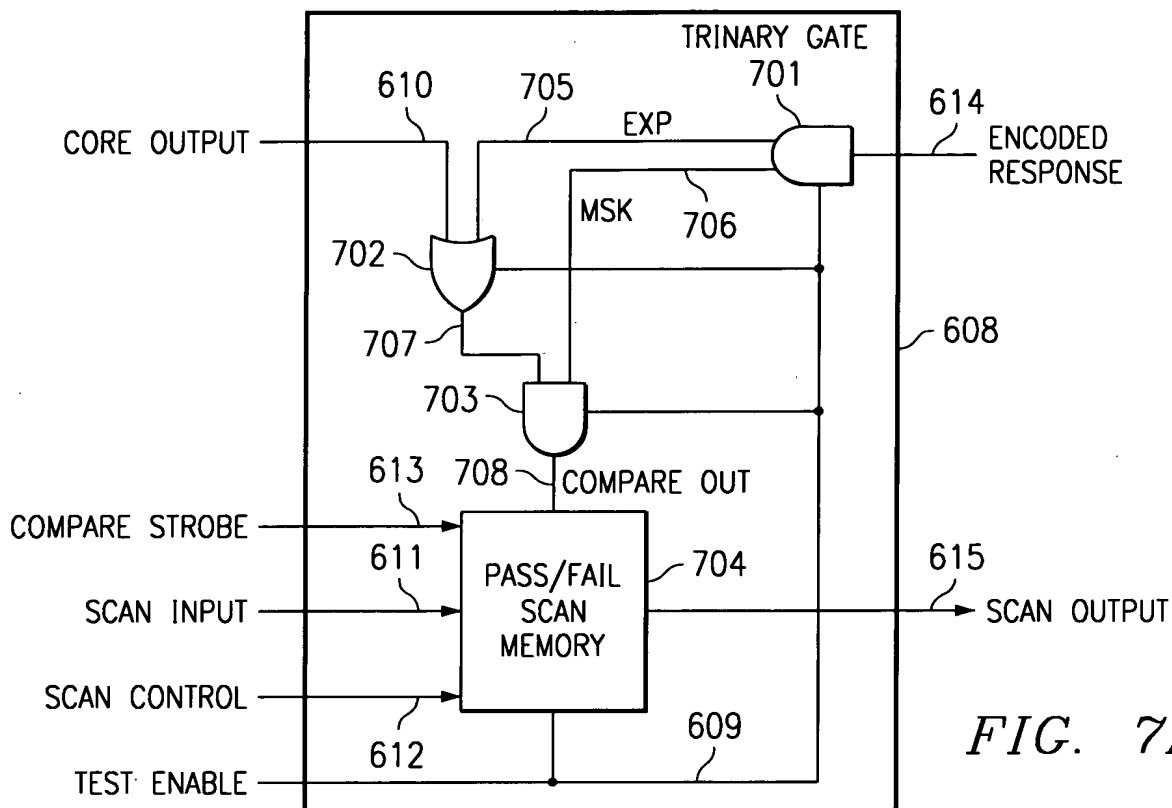


FIG. 7A

TEN	ENR	MSK	EXP	FUNCTION PERFORMED
0	X	X	X	TEST DISABLED
1	GND	1	0	COMPARE LOW
1	VDD	1	1	COMPARE HIGH
1	1/2VDD	0	X	MASK COMPARE

FIG. 7B

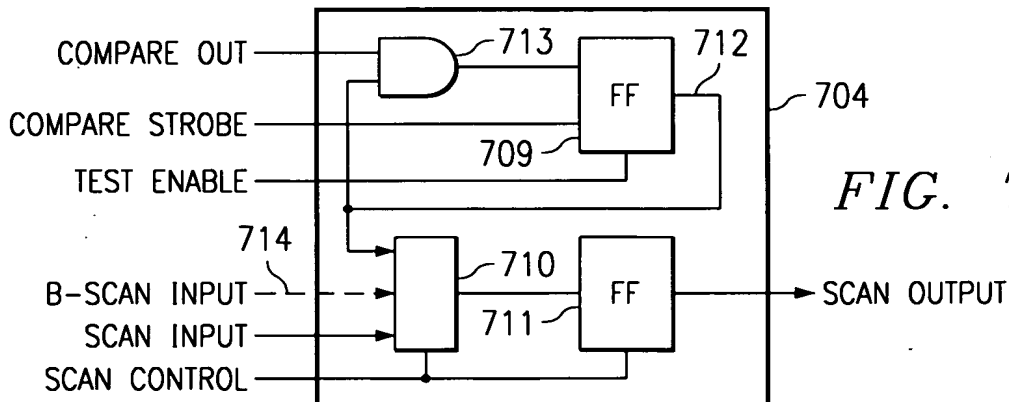


FIG. 7C

7/18

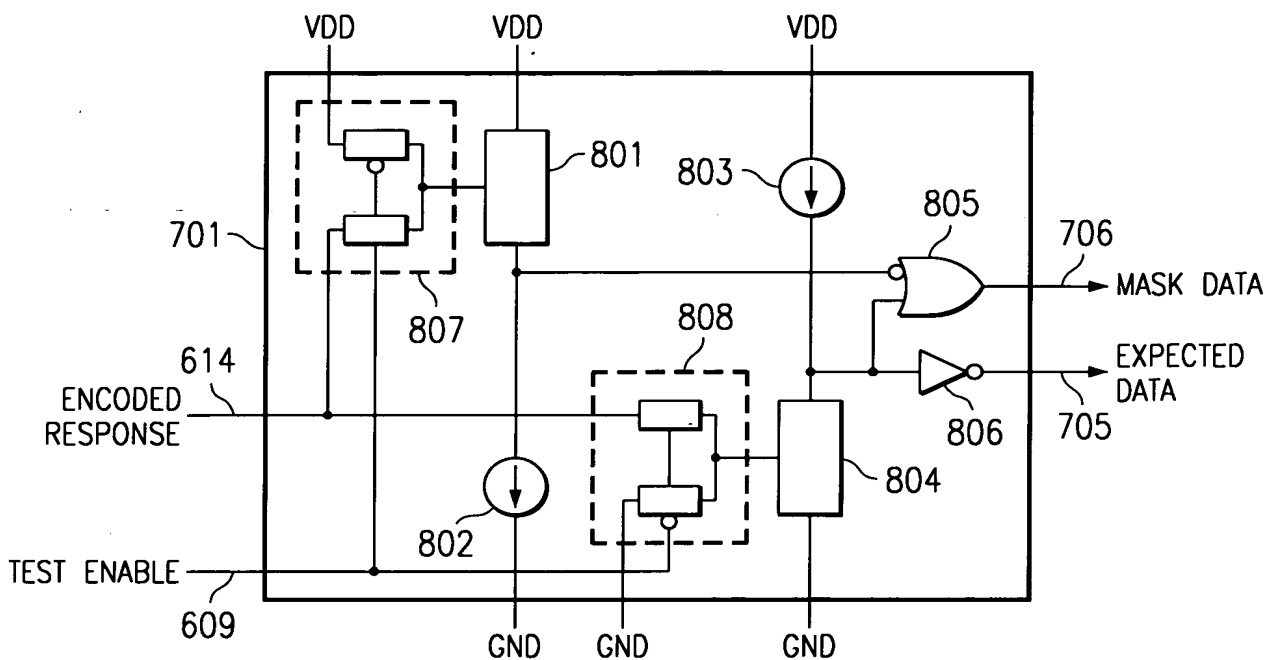


FIG. 8A

TEN	ENR	MSK	EXP	FUNCTION PERFORMED
0	X	1	0	GATE DISABLED
1	GND	1	0	OUTPUT A LOW
1	VDD	1	1	OUTPUT A HIGH
1	1/2VDD	0	X	OUTPUT A MASK

FIG. 8B

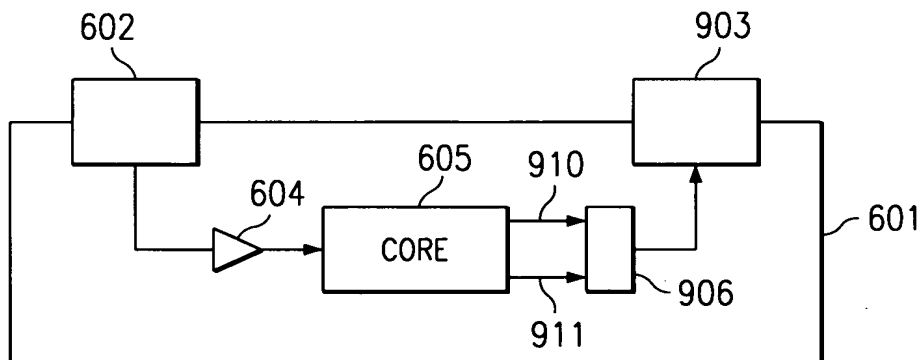


FIG. 9A

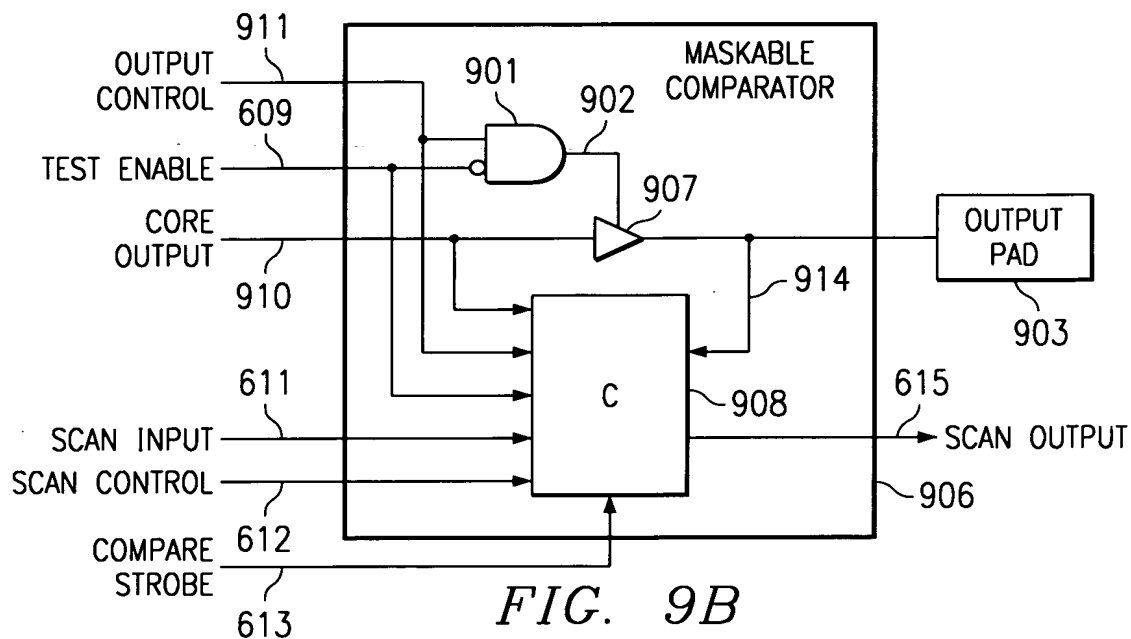


FIG. 9B

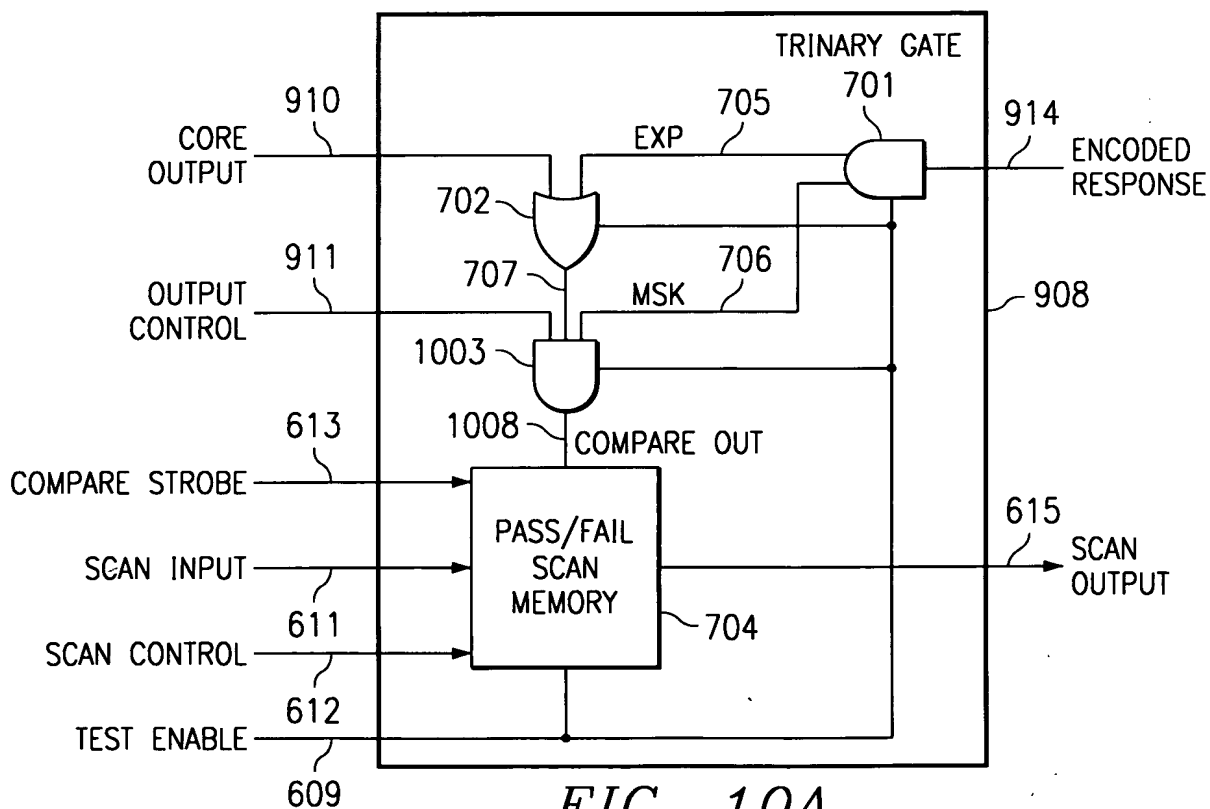


FIG. 10A



OC	TEN	ENR	MSK	EXP	FUNCTION PERFORMED
X	0	X	X	X	TEST DISABLED
1	1	GND	1	0	COMPARE LOW
1	1	VDD	1	1	COMPARE HIGH
1	1	1/2VDD	0	X	MASK COMPARE
0	1	GND/VDD	1	0/1	TEST OUTPUT CONTROL

FIG. 10B

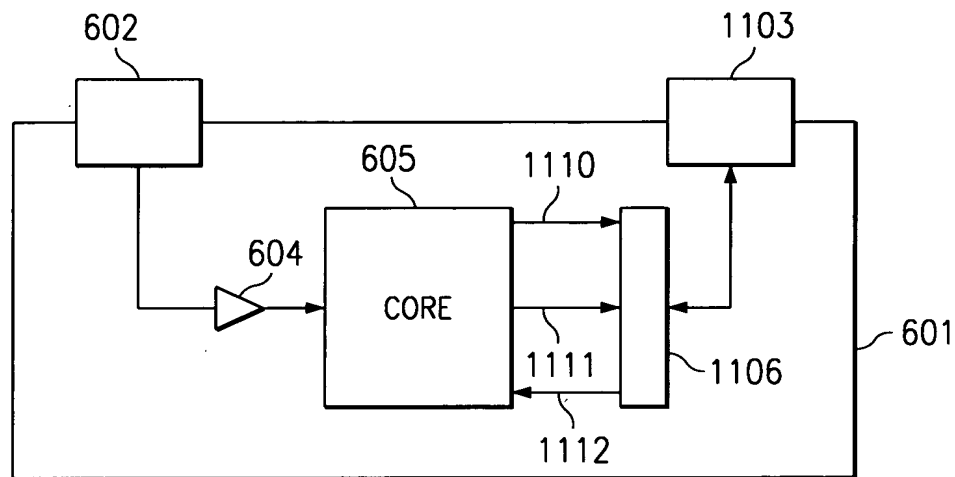


FIG. 11A

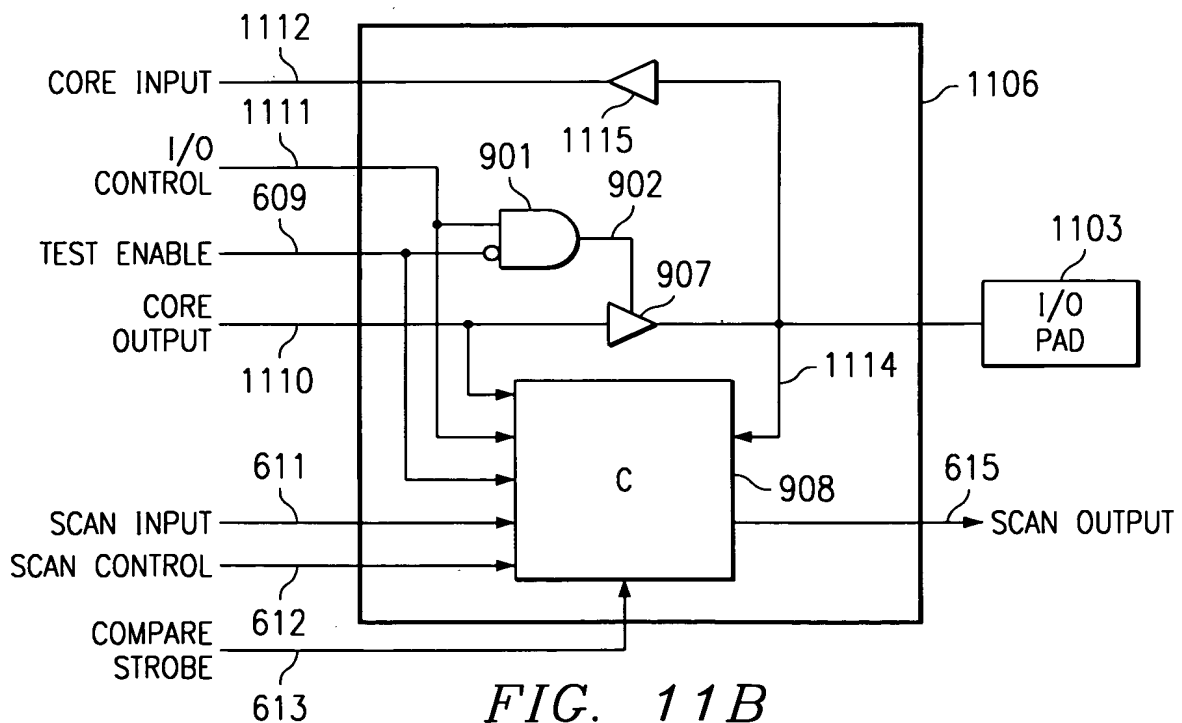
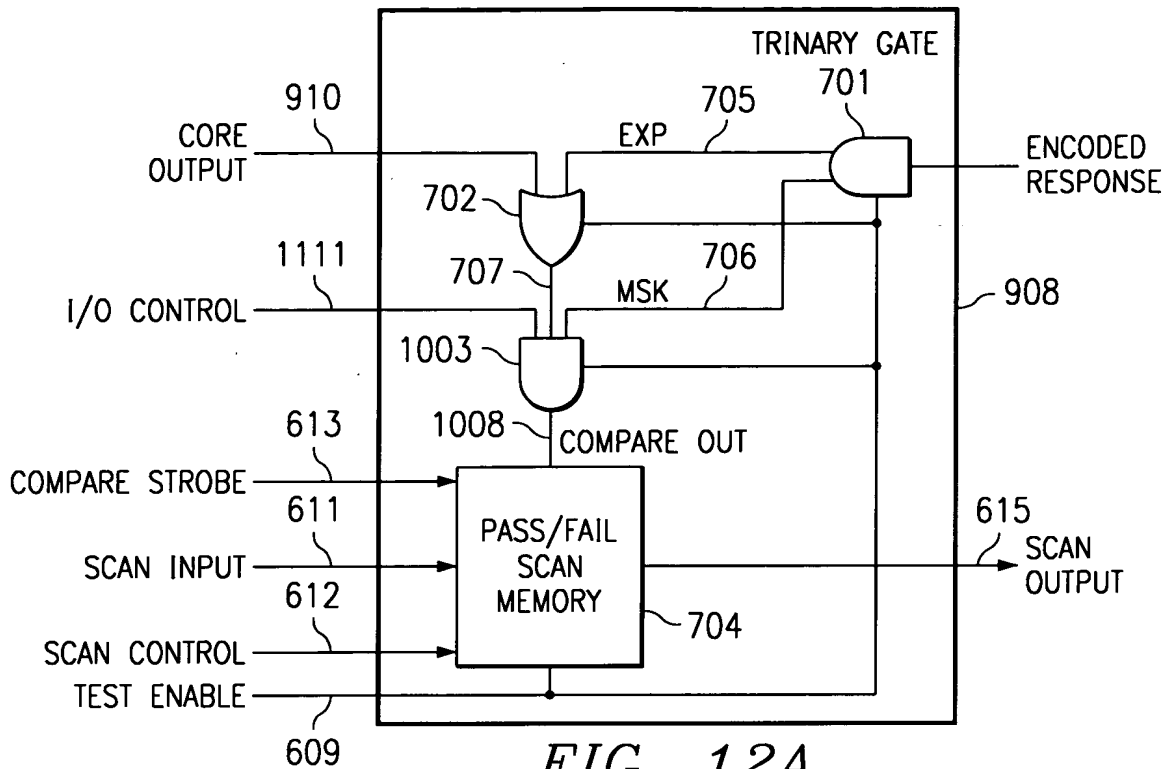


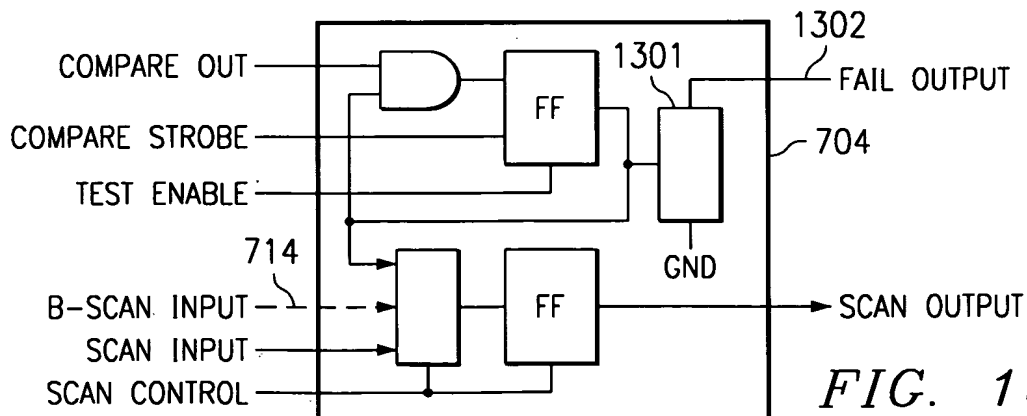
FIG. 11B

10/18



IOC	TEN	ENR	MSK	EXP	FUNCTION PERFORMED
X	0	X	X	X	TEST DISABLED
1	1	GND	1	0	COMPARE LOW
1	1	VDD	1	1	COMPARE HIGH
1	1	1/2VDD	0	X	MASK COMPARE
0	1	GND/VDD	1	0/1	TEST I/O CONTROL
0	1	GND/VDD	1	0/1	INPUT STIMULUS

FIG. 12B



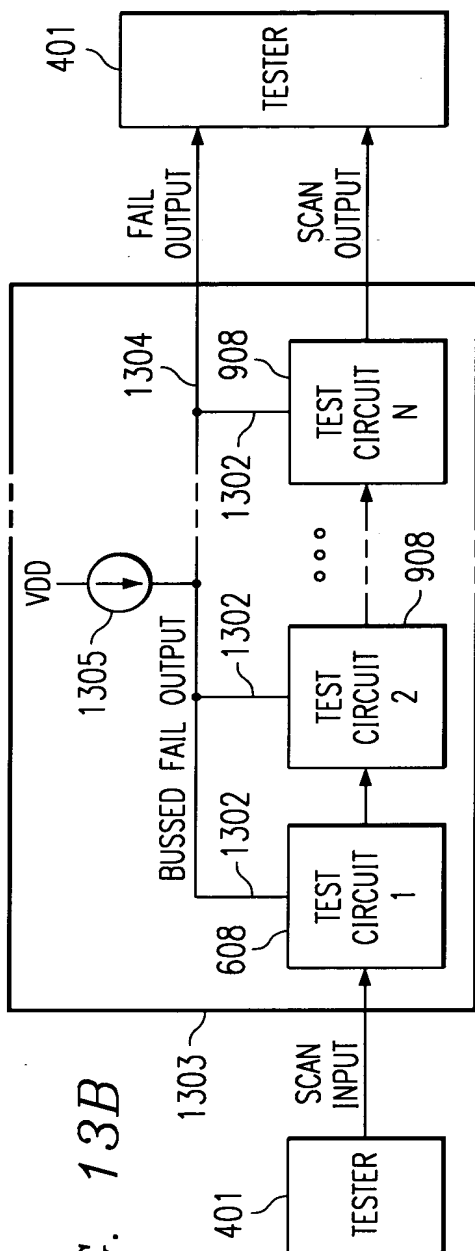


FIG. 13B

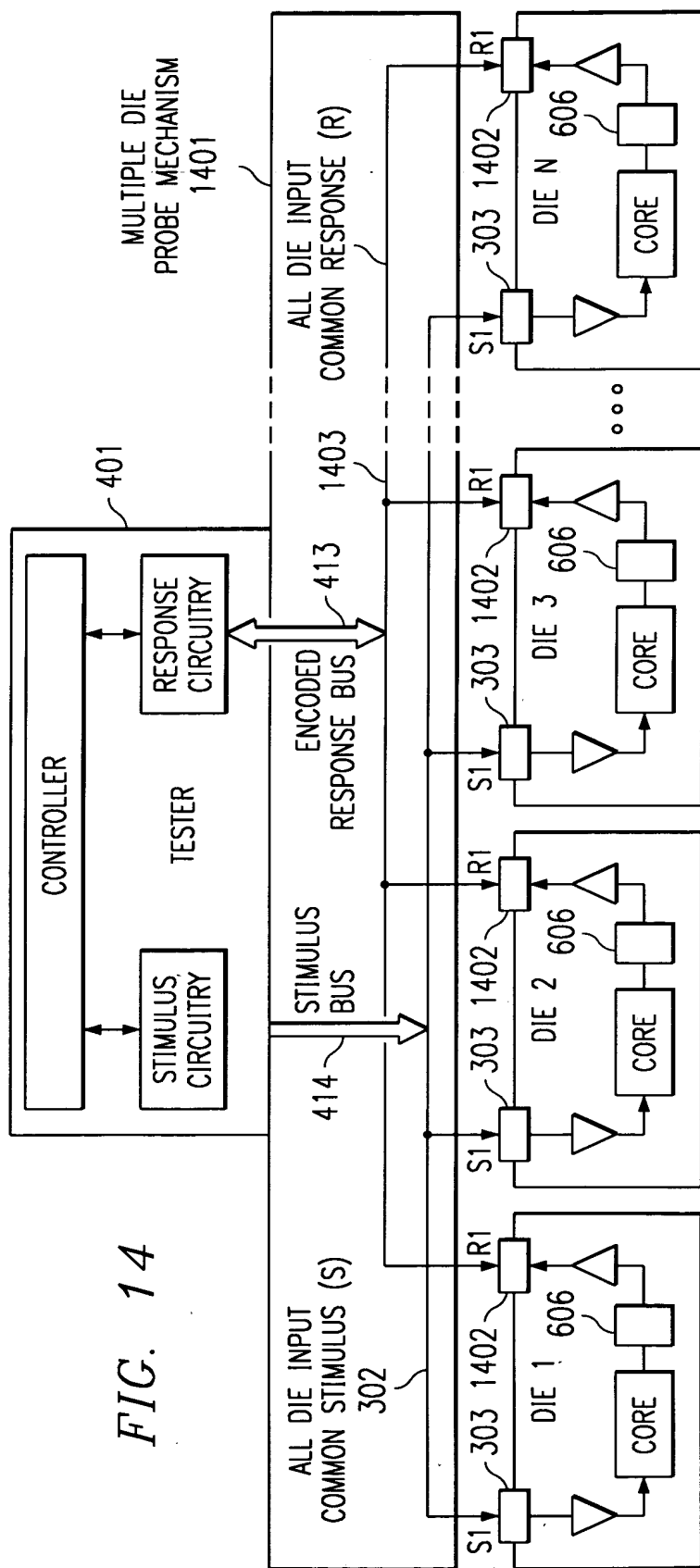


FIG. 14

FIG. 15

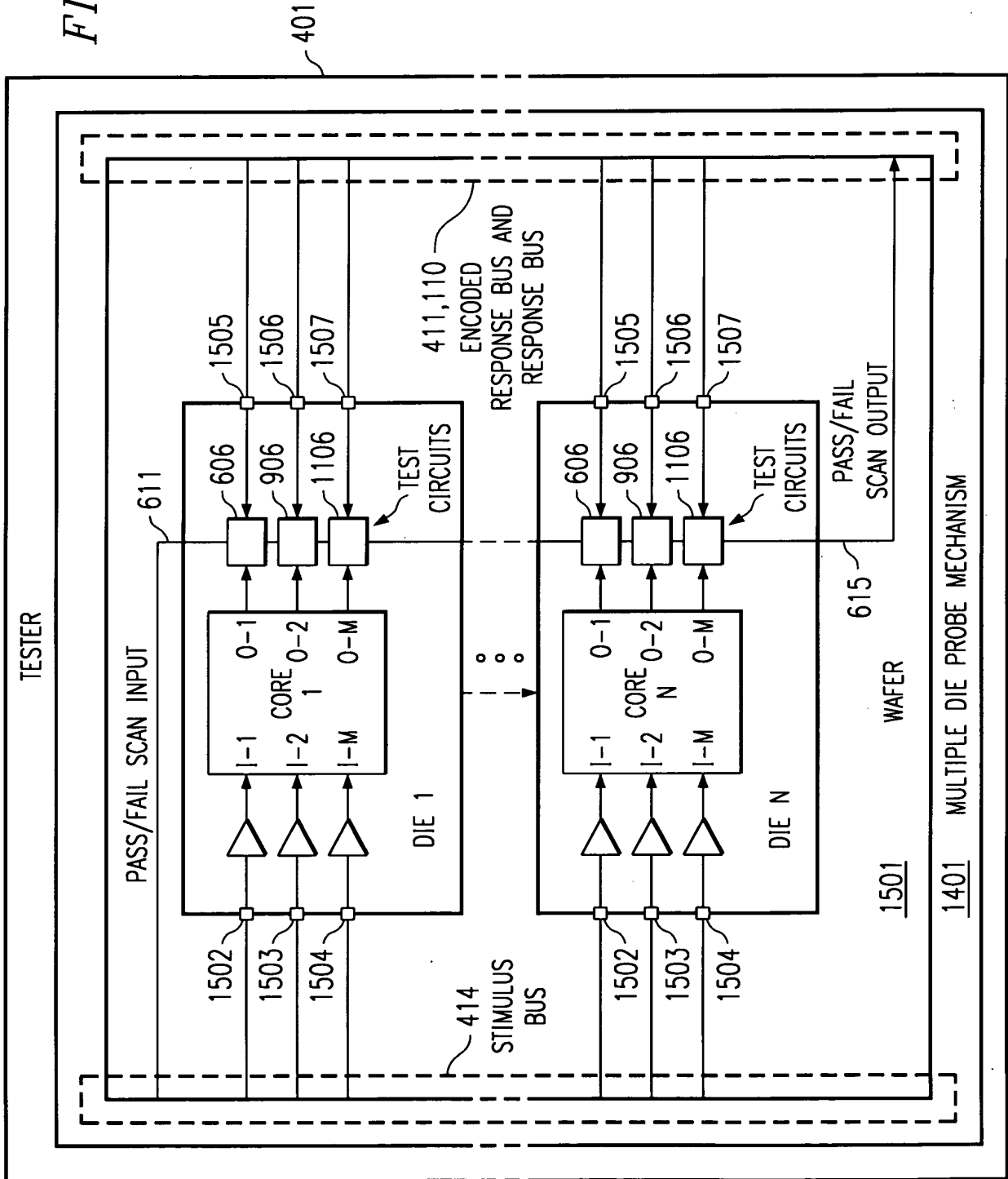
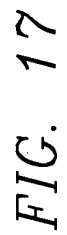


FIG. 16



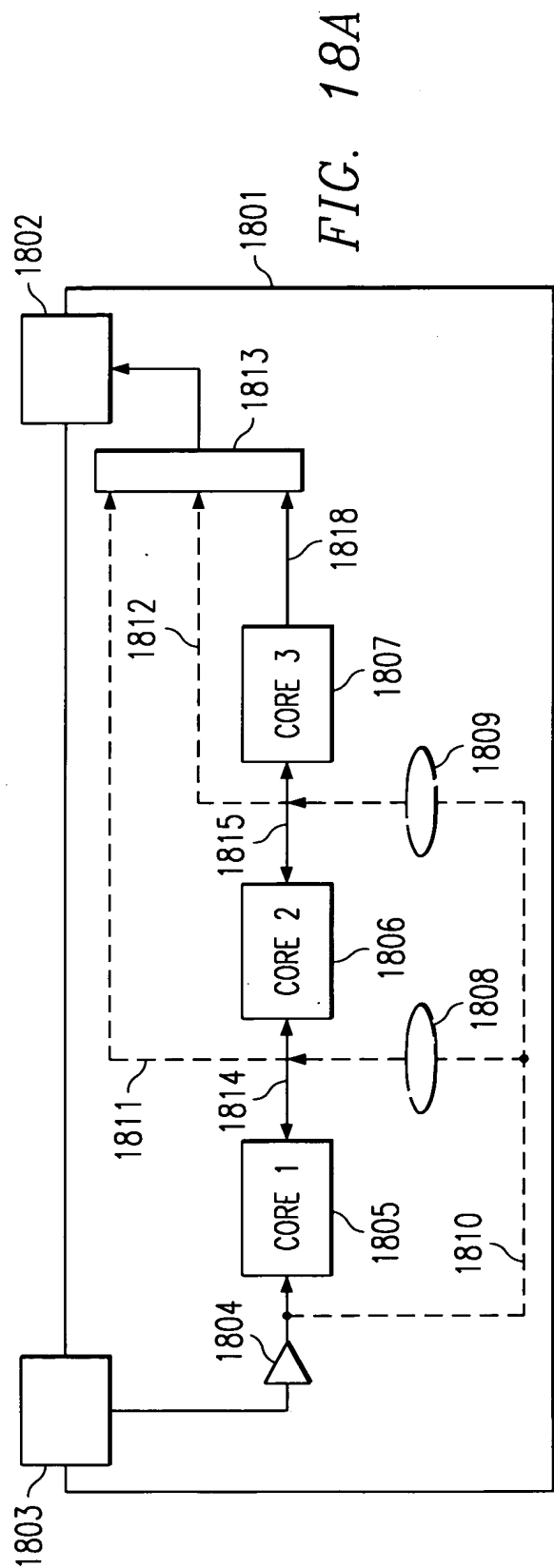


FIG. 18A

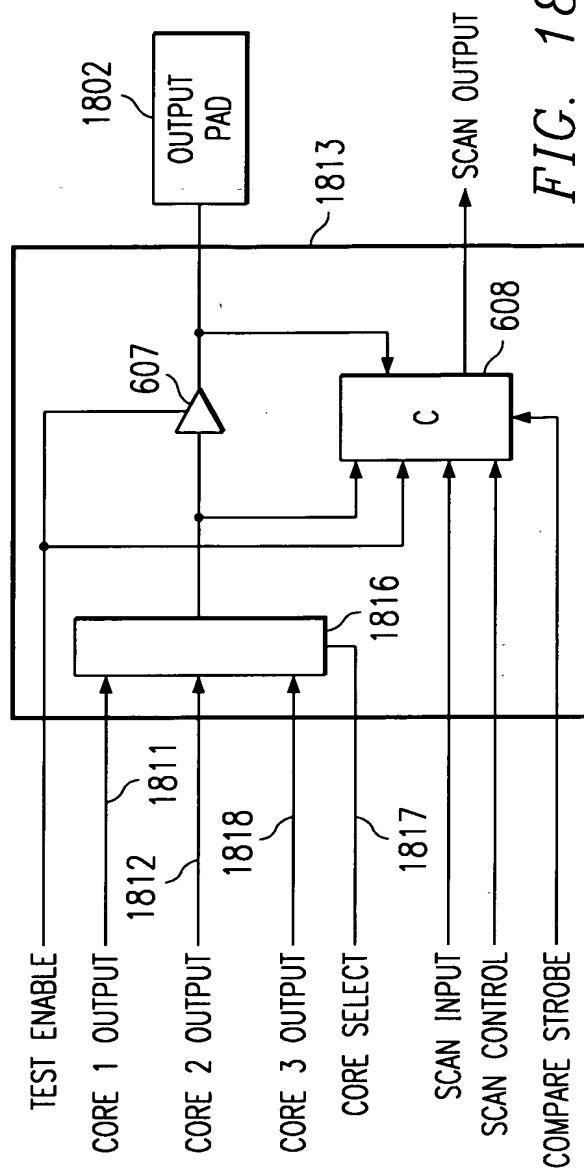


FIG. 18B

